

# **BRAC-133**

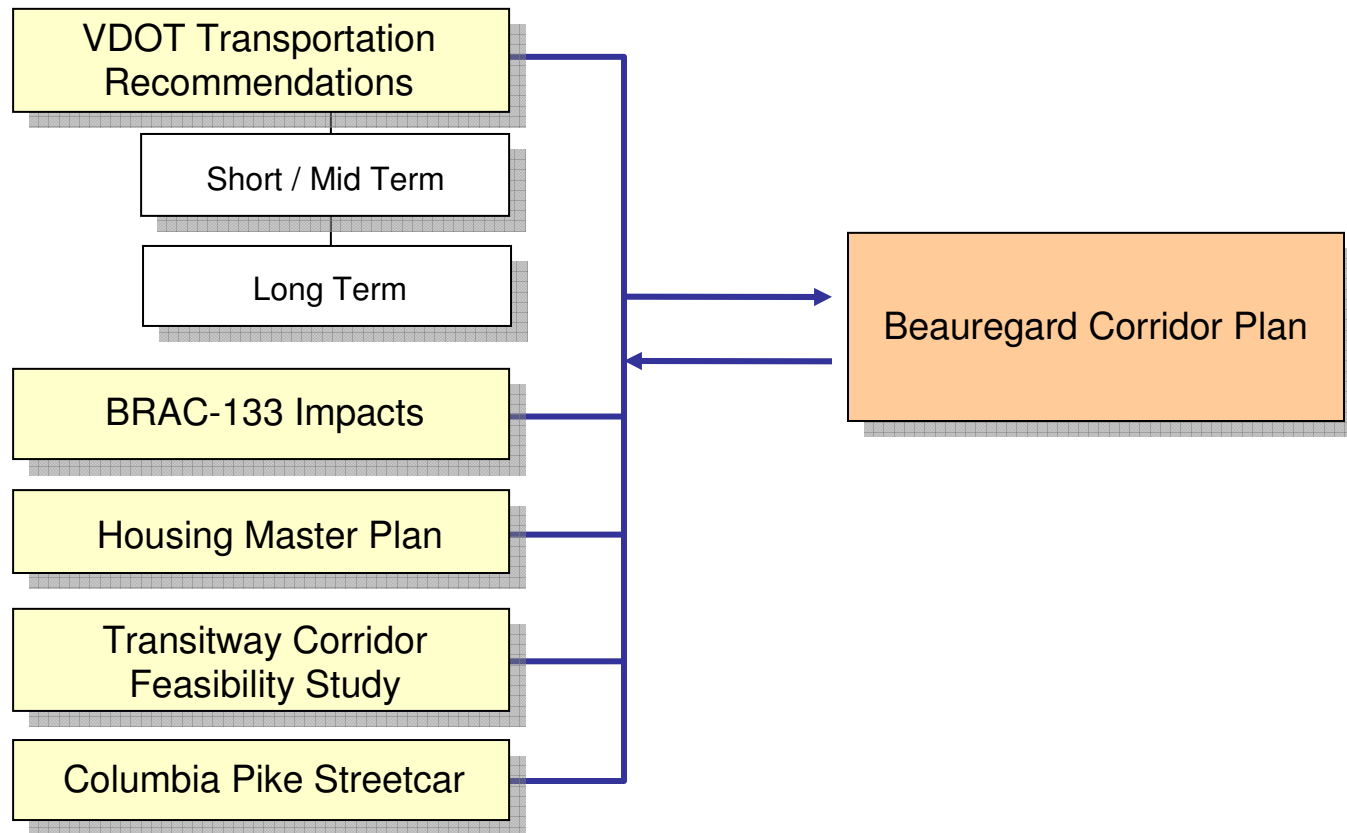
October 20, 2010

Transportation and Environmental  
Services

# **BRAC-133 Conceptual Design**

- **Short-Term/Mid-Term Improvements Study underway**
  - **Consultant report to the BRAC Advisory Group on short-term/mid-term options**
- **Long Term Improvements Study**
  - **Scope amended to include modeling of both HOV and HOT lanes**

# Beauregard Corridor Plan Coordination



October 20, 2010

# UTILITIES OVERVIEW

## BRAC 133

10/21/2010

# BRAC 133 Utility Overview

- Utility services provided within development plans for the site
- All services coordinated through public utility companies
- Utilities companies provide the service within systems capacities and are responsible for systems reliability
- Permits & regulations govern the installation of all services to the site

# Electric

- Dominion Virginia Power provides power to the site in accordance with state regulations
- Two Lines: Primary and Secondary
- Modifications/improvements made to existing primary lines
- Secondary line added to enhance reliability
- Back-up generation on site

# Gas

- Washington Gas is providing gas service to the site
- Connections were coordinated with Washington Gas
- Connections made at existing lines serving the site
- Service engineered within planned demand

# Water/Sewer

- Virginia American Water providing service
- Connections occurred at existing water mains previously located on site for development
- Project designed for 40% less water demand than typical (LEED Gold)
- Project contracted to discharge to Arlington treatment facility not Alexandria



# Storm Water

- Winkler Preserve developed and built to receive post-development run-off from 225 acres
- BRAC 133's 16 acres, 7% of total watershed, were developed within design capacity of the Winkler Preserve
- A management plan is in place for ongoing maintenance of the lakes and pond

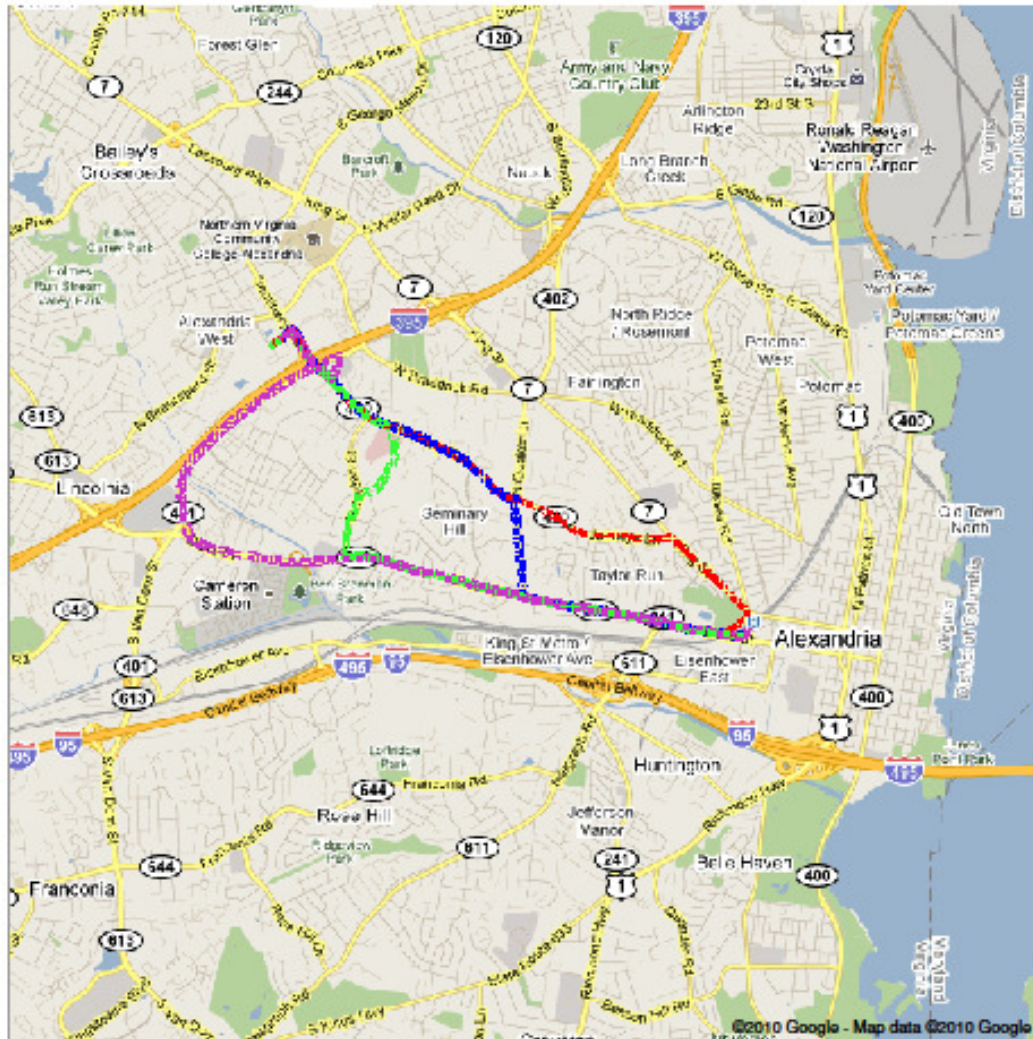
# Preserve Protective Actions

- Surveyed ponds prior to beginning project
- Performed improvements and cleaned to linear lakes at project start
- Performing channel improvements in VDOT ROW
- Will conduct stream restoration from Hilton
- Installed erosion controls systems during project construction
- Conducting ongoing monitoring during project
- Ongoing coordination with Winkler Preserve

# Sustainability & Energy Savings

- Green roof, stream restoration, channel improvements & bio-swales, to improve the site outfall to Winkler Preserve
- Installing drought tolerant native plants, low flow plumbing fixtures to achieve 40% reduction in water usage
- Installing LED lighting, Occupancy sensors, Demand Controlled Ventilation, Enthalpy Wheels, and Spray Foam Insulation to achieve 25% reduction in gas/electric use

# King Street Transit Routes



10/21/2010

# King Street Transit Route Runs

KING STREET TO MARK CENTER – 9/16/2010									
	Route #1	Route #2	Route #3	Route #4					
<b>Length of Run</b>	4.0 miles	4.1 miles	6.0 miles	4.7 miles					
<b>Start Time</b>	7:20AM	8:10AM	8:46AM	DNR		Originated at King Street			
<b>Run Time</b>	<b>16:15</b>	<b>14:43</b>	<b>18:42</b>						
<b>Start Time</b>	7:47AM	8:20AM	8:46AM	DNR		Return Trip			
<b>Run Time</b>	<b>21:04</b>	<b>18:55</b>	<b>21:41</b>						
<b>Start Time</b>	4:46PM	5:23PM	6:32PM	DNR		Originated at King Street			
<b>Run Time</b>	<b>20:23</b>	<b>29:36</b>	<b>21:55</b>						
<b>Start Time</b>	5:07PM	5:53PM	6:32PM	DNR		Return Trip			
<b>Run Time</b>	<b>14:41</b>	<b>16:33</b>	<b>23:13</b>						

10/21/2010

# King Street Transit Route Runs

KING STREET TO MARK CENTER – 9/20/2010									
	Route #1	Route #2	Route #3	Route #4					
<b>Length of Run</b>	4.0 miles	4.1 miles	6.0 miles	4.7 miles					
<b>Start Time</b>	8:56AM	8:25AM	7:35AM	7:03AM		Originated at King Street			
<b>Run Time</b>	<b>13:10</b>	<b>11:57</b>	<b>19:20</b>	<b>14:21</b>					
<b>Start Time</b>	9:10AM	8:37AM	7:56AM	7:18AM		Return Trip			
<b>Run Time</b>	<b>10:30</b>	<b>17:30</b>	<b>28:00</b>	<b>17:05</b>					
<b>Start Time</b>	6:28PM	5:53PM	5:07PM	4:32PM		Originated at King Street			
<b>Run Time</b>	<b>13:10</b>	<b>15:47</b>	<b>18:44</b>	<b>13:28</b>					
<b>Start Time</b>	6:42PM	6:10PM	5:26PM	4:46PM		Return Trip			
<b>Run Time</b>	<b>11:20</b>	<b>18:00</b>	<b>26:52</b>	<b>20:02</b>					

10/21/2010

# King Street Transit Route Runs

AVERAGE RUN TIMES - KING STREET TO MARK CENTER						
	Route #1	Route #2	Route #3	Route #4		
Length of Run	4.0 miles	4.1 miles	6.0 miles	4.7 miles		
Run Time	14:42	13:20	19:01	14:21		Average AM First Leg
Run Time	15:47	18:22	25:12	17:05		Average AM Return Trip
Run Time	16:46	22:42	20:19	13:28		Average PM First Leg
Run Time	13:00	17:16	24:32	20:02		Average PM Return Trip

10/21/2010